

PSIC Office Update: Multiple Projects

***Presented to the SIEC
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Overview

Response to the JLBC Inquiry

AIRS Training

CASM & TICPs

Narrowbanding



RESPONSE TO THE JOINT LEGISLATIVE BUDGET COMMITTEE INQUIRY



Background - \$2.2M Funds

- In 2007, the State legislature directed \$2.2M in FY2007-2008 anti-racketeering funds be used for "the detailed design of the long-term interoperability solution"
- In 2006, DPS commissioned Federal Engineering to conduct a conceptual (not detailed) design study. Published in 2008, the study recommended a statewide radio system for State agency users at a cost of \$218 million dollars
- As the State does not have the necessary funding for the recommended solution, the development of a detailed design based on the high level conceptual design was placed on hold



2010 SCIP System of Systems Approach

- In January 2010, the PSCC approved an updated Statewide Communications Interoperability Plan (SCIP)
- The SCIP has 12 strategic initiatives to advance interoperability, including AIRS, Microwave Upgrade, STR, Regional Systems, etc.
- At a high level the SCIP describes the linking of regional systems with one another and with state systems to facilitate long-term interoperability and also calls for development of a plan for a long term solution



Expenditure Plan Development

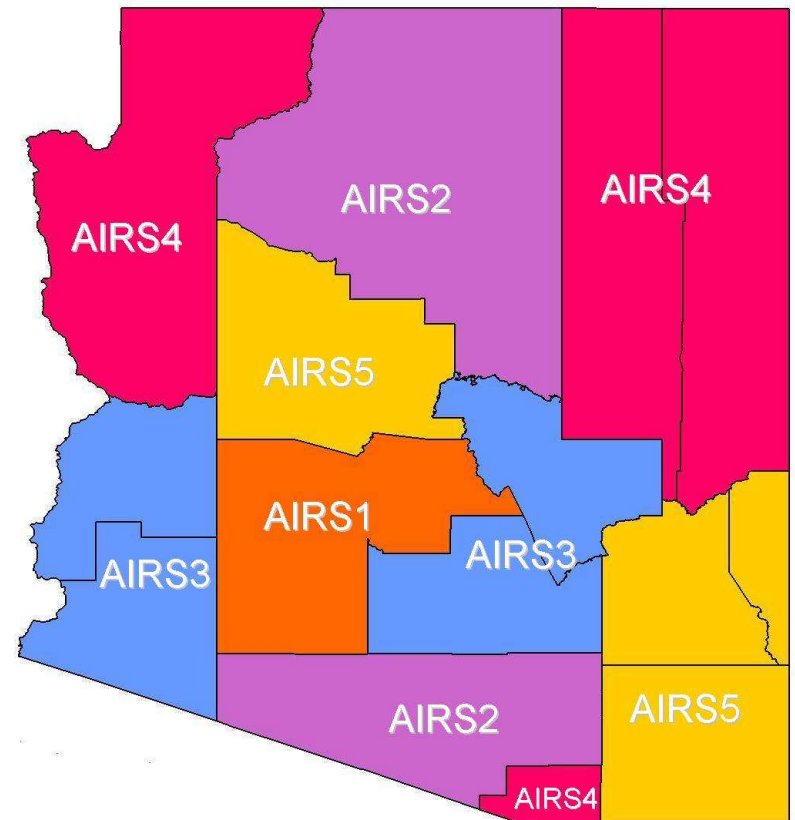
- The Joint Legislative Budget Committee (JLBC) is requesting the PSIC office submit an expenditure plan that addresses the use of the \$2.2 million dollars without the restrictions previously placed on the funds but consistent with the 2010 SCIP
- The PSIC office will consult with Subject Matter Experts to help develop a recommendation for the JLBC
- The draft JLBC recommendation will be presented to the PSCC at the July 2010 meeting; Based on input from the PSCC, the PSIC office will then submit an expenditure plan to the JLBC with our quarterly review due in August 2010
- PSIC Contact – Lisa Meyerson – lmeyerson@azgita.gov

AIRS TRAINING



Airs Interagency Radio System (AIRS) Training Materials

- Completed: Lesson Plan & PowerPoint
- Under Development:
 - Regional Materials & NIFOG Sticker
 - Training Video
 - » In production with the help of Phoenix Fire
 - » Video to be shown at July PSCC meeting
- GITA Contact – Andy Clark – aclark@azgita.gov



CASM & TICPs



CASM Overview

AZ is adopting the use of CASM to collect and maintain info on Public Safety/First Responder communications

Use of CASM is included in Arizona's SCIP Objective 1.3, along with creation of TICPs under Strategic Initiative 1 – Expand and Implement Interoperable Communications Governance Model and Plan

A detailed presentation on CASM and TICPs was made to SIEC in January including history in AZ, current status, capabilities, sources of information, roll out plan and high level project plan.

- These tools enable:

- Understanding of the level of interoperability between agencies/regions
- Identification of interoperability gaps
- Information with which to create Investment Justifications / Funding Requests
- Development of plans to close gaps and improve interoperability

A Tactical Interoperable Communications Plan

- Documents
 - Interoperable communications governance structures
 - Technology Assets
 - Usage Policies and procedures
- Defines
 - Breadth and scope of interoperable assets available in the area
 - How the assets are shared
 - How the use of the assets is prioritized
 - The steps individual agencies should follow to request, activate, use and deactivate each asset

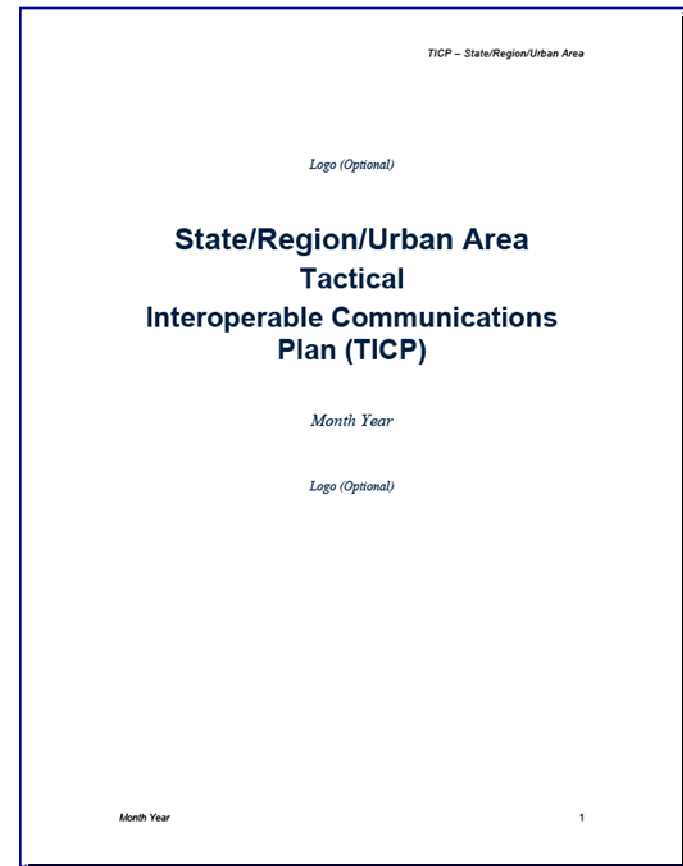


TICP Template from the DHS SAFECOM Program

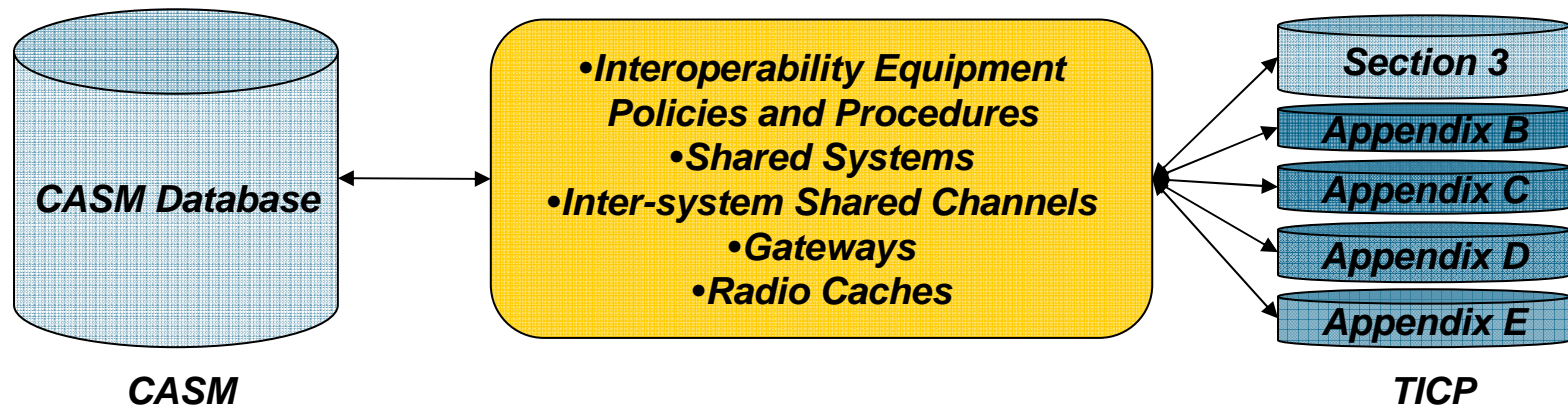
Overview

The TICP Template available from OEC's SAFECOM Program provides a description of the standard structure of a TICP and the relevant sections to be populated according to the unique needs of an urban area, county, region, state/territory, tribe or Federal department/agency.

www.safecomprogram.gov



- CASM will generate a pre-formatted report for Section 3 and Appendixes B-E of a TICP which cover interoperability equipment and related policies and procedures
- Data from approved TICPs can be input to CASM by populating templates and submitting them to the CASM team for uploading





How to Engage

- Michael Britt and Andrew Clark will be the PSIC points of contact for CASM and TICPs
- They are in process of identifying interested communities to support in use of this tool and development of tactical plans
- Communities who utilize these resources will be well positioned for NECP Goal Two exercises and evaluations in 2011.
- Contact Michael Britt at mbritt@azgita.gov or Andy Clark at aclark@azgita.gov

NARROWBANDING

Narrowbanding

What Narrowbanding Is

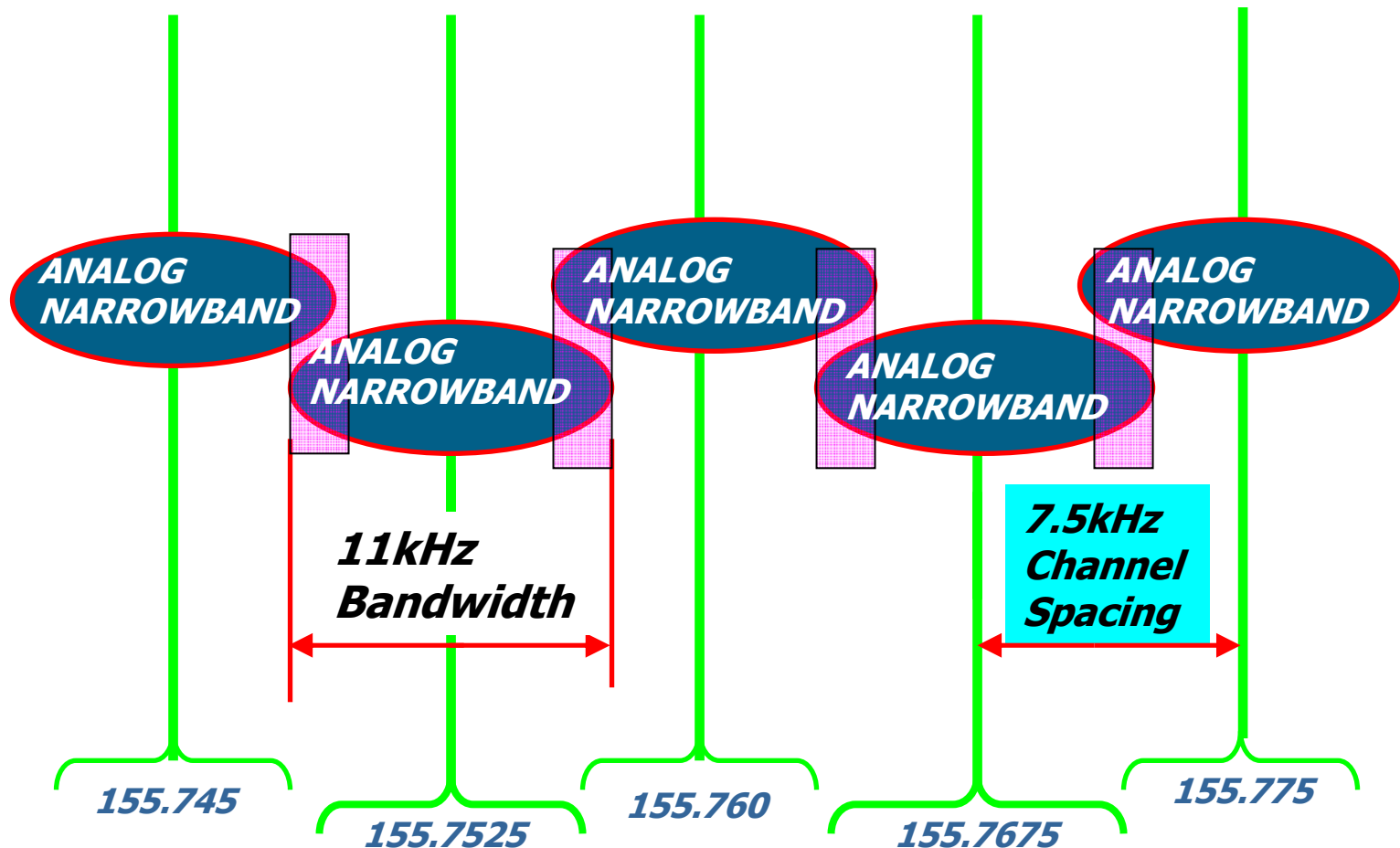
- Reduces channel spacing by 50%
- Reduces the emission bandwidth of a radio by 50% from 20kHz to 11 kHz
- Applies to VHF High Band (150-174 MHz) systems
- Applies to UHF (420 to 512 MHz) systems

What It Is Not

- Does not impact 700/800 MHz systems
- Does not impact Low Band VHF (30-50 MHz) systems
- Narrowbanding is *not* 800 MHz Rebanding

Time is Growing Short!

Analog voice with a 11kHz necessary bandwidth after all are narrowbanded





Why Narrowbanding?

- Narrowbanding was mandated by the FCC based on concerns about spectrum shortage:
 - January 1, 2011
 - » No new systems will be licensed to use Wide Bandwidth.
 - » No existing systems using Wide Bandwidth will be allowed to expand their licensed “Footprint”
 - » No manufacture or import of 25 kHz equipment
 - January 1, 2013
 - » ALL Systems must be operating in the Narrow Bandwidth Mode
- NPSTC (National Public Safety Telecommunications Commission) and LMCC (Land Mobile Communications Council)
 - Submitted suggested actions to CANCEL LICENSES that do not reflect narrowband emissions on January 1, 2013



What to do NOW

Educate Decision Makers

- Bring decision makers into the Planning Process
- Narrowbanding can be expensive!
- Only 1 to 2 Budget Cycles remain
- Some Grant Programs allow funding for narrowbanding

Start Planning

- Engage your Equipment Vendor
- Get your Service Shop on board
- Determine whether you need a consultant or can use existing staff



Implementation Planning

- Inventory your Radios to determine what needs to be upgraded / replaced
- Inventory your infrastructure – repeaters, base stations, satellite voting receivers / comparators, paging transmitters - to be sure they are narrowband capable
- Plan your Purchases, System reconfiguration / upgrades and plan for unintended risks and delays
- Talk to your Partners re: timing for reprogramming to maintain interoperability
- Review site engineering for adequate signal coverage, simulcast holes, fringe and in-building coverage



More Information on Narrowbanding

Contact PSIC - Michael Todd
mtodd@azgita.gov or Andy Clark at
aclark@azgita.gov

THANK YOU !!!